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# A Checklist of the Vascular Flora in the Vicinity of the Oldman River Dam

Alberta
ENVIRONMENTAL CENTRE

# A Checklist of the Vascular Flora in the Vicinity of the Oldman River Dam

Alberta Environmental Centre
and
Wild Rose Consulting, Inc.

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The Oldman River Dam is located in southwestern Alberta 10 km northeast of Pincher Creek, east of the confluence of the Oldman, Castle, and Crowsnest Rivers (Figure 1). A land base, which will be managed for the conservation of wildlife, has been established around the 2400 ha reservoir by the Government of Alberta. The topography of the land base is consistent with its location at the south end of the Porcupine Hills, in the foothills of the Rocky Mountains and extending out onto the flat prairie. The terrain is cut deeply by the Oldman, Castle, and Crowsnest Rivers and the numerous large coulee systems draining into these rivers. The land base extends approximately 19 km west of the dam, almost to the town of Lundbreck, and 1.6 km east. It includes Tennessee Creek north to Sec36-Twp7-Rge30-W4 and extends north along the Oldman River to Sec9,10-Twp8-Rge1-W5. It follows the Castle River south to Sec2-Twp7-Rge1-W5.

This checklist of vascular plants was prepared to identify rare species that occur in the reservoir area or in the surrounding land base. It is anticipated that this list will provide a resource for future projects in restoration and revegetation in this area and reflect the native vegetation as it exists at present. It will be especially valuable in determining changes in flora over extended periods of time.

The checklist is based primarily on specimens collected in 1989, 1990, and 1991 in the Government of Alberta land base and adjacent private lands. Voucher specimens of each species were collected with information on location, habitat, and collection date. Specimens were identified by the authors. Confirmation (and when necessary correction) of the identification of sedges was kindly undertaken by Dr. Peter Ball at the University of Toronto, and questionable identifications of grasses and forbs were confirmed by the staff of the Biosystematics Research Centre in Ottawa. Plants previously reported for this area by Hardy and Associates (1978) Ltd. (1986) and more recently by Eastern Slopes Rangeland Consultants, Ltd. (1992) are included on this list; however, since voucher specimens were not collected, identifications of these species could not be verified. A complete collection of voucher specimens will be housed in the Herbarium of the Provincial Museum of Alberta (PMAE), at the Native Plant Genetic Resources Laboratory, Alberta Environmental Centre, Vegreville, and at the Interpretive Centre, Oldman River Dam. Presently the collection comprises approximately 1800 specimens representing 54 families, 167 genera, and 303 species.

The large number of species found in this area can be explained by the presence of numerous plant communities representing several ecoregions. The Oldman River Dam collection area is located within the Fescue Grass Ecoregion of Alberta (Strong and Leggat 1981). Floristic elements of this ecoregion are found on the moist eastern and northern aspects. Here rough fescue predominates. While the drier coulee slopes are dominated by shrub communities of wolf willow and buckbrush; chokecherry, rose, Saskatoon berry,

and hawthorn occupy the moister niches. The uplands are dominated by Mixed Grass communities (speargrass, junegrass, and wheatgrasses). These areas are of considerable interest since much of this vegetation type in Alberta has been lost to cultivation. The dry, steep, southern exposures are dominated by ground juniper and skunk bush. Elements of the Montane Ecoregion, distinguished by open stands of Douglas fir are found on the steepest north facing slopes. Limber pine, also a montane species, is found on rocky scarps. A few aspen stands, especially on the eastern and northern slopes, represent the Aspen Parkland Ecoregion. The lowest reaches along the rivers' edges support a community dominated by tall stands of cottonwoods. The soil type of the Fescue Grass Ecoregion is black chernozem. The climate is characterized by warm dry summers and dry winters. The mean temperature from May to September is 12.5°C with a frost free period of 90 days. Mean temperature from December to February is -8.0°C. Mean precipitation is 290 mm from May to September with June being the month of maximum precipitation. Snowfall from October to April is 230 mm, and there are approximately 30 chinook days.

Plant families are ordered according to the Englerian System; genera and species are arranged alphabetically within the family. Scientific names found in "Flora of Alberta" (Moss 1981) were used where possible. The recent monograph, 'Fescue Grasses of Canada' (Aiken and Darbyshire 1990) was used for the fescue. Orchid nomenclature follows Smreciu and Currah (1989). Common names are those the authors considered the most commonly used or appropriate name for each species. Designations of plants as rare for the Oldman River area are based on the COSEWIC list (1989). Further information concerning these species and their status can be found in publications by Wallis *et al.* (1986, 1987)

It is hoped that publication of this list of plants from the vicinity of the Oldman River Dam will stimulate further interest in the study and documentation of plants in areas affected by major construction projects. The authors gratefully acknowledge funding for this project from Alberta Public Works, Supply and Services, Reservoir Development Division and to Al Nilson and Ron Middleton of that department for their guidance and enthusiasm in seeing this work completed. We thank June Carrington, Craig Osterloh, Dave Hay, Richard Fyfe and Karen Brewka for their assistance in locating plant populations. Wendy Sturek, Teresa Kupchenko, and Carla Zelmer assisted with the considerable task of collecting, pressing, mounting, labelling, and cataloguing the extensive collection.

**Figure 1.** Location of the Oldman River Dam Site in southwestern Alberta.

| | |
|---|---|
| **Selaginellaceae** | **Club-moss Family** |
| *Selaginella densa* Rydb. | little club-moss |
| **Equisetaceae** | **Horsetail Family** |
| *Equisetum arvense* L. | common horsetail |
| *Equisetum fluviatile* L. | swamp horsetail |
| *Equisetum hyemale* L. var. *affine* (Engelm.) A.A. Eat. | scouring rush |
| *Equisetum laevigatum* A. Br. | smooth scouring rush |
| **Polypodiaceae** | **Fern Family** |
| *Cystopteris fragilis* (L.) Bernh. | bladder fern |
| **Cupressaceae** | **Cypress Family** |
| *Juniperus communis* L. | ground juniper |
| *Juniperus horizontalis* Moench | creeping juniper |
| **Pinaceae** | **Pine Family** |
| *Pinus flexilis* James | limber pine |
| *Pseudotsuga menziesii* (Mirb.) Franco | Douglas fir |
| **Typhaceae** | **Cattail Family** |
| *Typha latifolia* L. | common cattail |
| **Potamogetonaceae** | **Pondweed Family** |
| *Potamogeton crispus* L.° | curled pondweed |
| *Potamogeton gramineus* L. var. *gramineus* L. | grass-leaved pondweed |
| **Juncaginaceae** | **Arrow-grass Family** |
| *Triglochin palustris* L. | slender arrow-grass |
| **Alismataceae** | **Water-plantain Family** |
| *Alisma gramineum* Lej. | narrow-leaved water plantain |
| *Alisma plantago-aquatica* L. var. *americanum* Schultes & Schultes | broad-leaved water plantain |

° Introduced
°° Reported by Hardy Associates (1978) Ltd. (1986)
† Rare in Alberta (COSEWIC 1989)
‡ Reported by Eastern Slopes Rangeland Consultants (1992)

| **Gramineae** | **Grass Family** |
|---|---|
| *Agropyron albicans* Scribn. & Smith var. *albicans* | |
| *Agropyron dasystachyum* (Hook.) Scribn. | northern wheat grass |
| *Agropyron smithii* Rydb. | western wheat grass |
| *Agropyron spicatum* (Pursh) Scribn. & Smith | bluebunch wheat grass |
| *Agropyron trachycaulum* (Link) Malte | slender wheat grass |
| *Agropyron trachycaulum* (Link) Malte var. *unilaterale* (Cassidy) Malte | awned slender wheat grass |
| *Agrostis stolonifera* L.* | redtop |
| *Alopecurus aequalis* Sobol.‡ | water foxtail |
| *Beckmannia syzigachne* (Steud.) Fern. | slough grass |
| *Bouteloua gracilis* (HBK) Lag. | buffalo grass |
| *Bromus carinatus* Hook. & Arn. | California brome |
| *Bromus inermus* Leyss.* | awnless brome |
| *Calamagrostis montanensis* Scribn. | plains reed grass |
| *Calamagrostis rubescens* Buckl.‡ | pine grass |
| *Calamovilfa longifolia* (Hook.) Scribn. | sand grass |
| *Danthonia parryi* Scribn. | Parry oat grass |
| *Deschampsia cespitosa* (L.) Beauv. ssp. *cespitosa* | tufted hair grass |
| *Elymus canadensis* L. | Canada wild rye |
| *Elymus piperi* Bowden | giant wild rye |
| *Festuca campestris* Rydb. | rough fescue |
| *Festuca idahoensis* Elmer | bluebunch fescue |
| *Festuca saximontana* Rydb. | rocky mountain fescue |
| *Glyceria striata* (Lam) A.S. Hitchc. ssp. *stricta* (Scribn.) Hult. | fowl manna grass |
| *Helictotrichon hookeri* (Scribn.) Henr. | Hooker's oat grass |
| *Hordeum jubatum* L. | foxtail barley |
| *Koeleria macrantha* (Ledeb.) J.A. Schultz f. | june grass |
| *Muhlenbergia cuspidata* (Torr.) Rydb. | plains muhly |
| *Muhlenbergia richardsonis* (Trin.) Rydb.‡ | mat muhly |
| *Oryzopsis hymenoides* (R. & S.) Ricker | Indian rice grass |
| *Oryzopsis micrantha* (Trin. & Rupr.) Thurber† | small-flowered rice grass |

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|---|---|
| **Gramineae (continued)** | |
| *Phalaris arundinacea* L. | reed canary grass |
| *Poa canbyi* (Scribn.) Piper | Canby blue grass |
| *Poa compressa* L.* | Canada blue grass |
| *Poa cusickii* Vasey | early blue grass, Cusick blue grass |
| *Poa interior* Rydb. | |
| *Poa juncifolia* Scribn. | alkali blue grass |
| *Poa palustris* L. | fowl blue grass |
| *Poa pratensis* L. | Kentucky bluegrass |
| *Poa sandbergii* Vasey | Sandberg blue grass |
| *Puccinellia nuttalliana* (Schult.) A.S. Hitchc. | Nuttall's alkali grass |
| *Schizachne purpurascens* (Torr.) Swallen ssp. *purpurascens*‡ | false melic |
| *Stipa comata* Trin. & Rupr. var. *comata* | needle and thread grass |
| *Stipa curtiseta* (A.S. Hitchc.) Barkworth | western porcupine grass |
| *Stipa viridula* Trin. | green needle grass |
| **Cyperaceae** | **Sedge Family** |
| *Carex athrostachya* Olney‡ | slender-beaked sedge |
| *Carex aquatilis* Wahlenb. | water sedge |
| *Carex filifolia* Nutt. | thread-leaved sedge |
| *Carex heliophila* Mack. | |
| *Carex lanuginosa* Michx. | woolly sedge |
| *Carex macloviana* D'Urv. | Falkland Island sedge |
| *Carex obtusata* Lilj. | blunt sedge |
| *Carex praegracilis* Boott | clustered field sedge |
| *Carex rossii* Boott | short-stemmed sedge |
| *Carex rostrata* Stokes (= *Carex utriculata* Boott) | beaked sedge |
| *Carex siccata* Dewey | hay-like sedge |
| *Carex sprengelii* Dewey‡ | Sprengel's sedge |
| *Carex stenophylla* Wahl. ssp. *eleocharis* (Bailey) Hult.‡ | |
| *Carex viridula* Michx. | green sedge |
| *Eleocharis palustris* (L.) R. & S. | creeping spike-rush |

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|---|---|
| **Cyperaceae (continued)** | |
| *Scirpus microcarpus* Presl | small-fruited bulrush |
| *Scirpus paludosus* A. Nels. | prairie bulrush |
| | |
| **Juncaceae** | **Rush Family** |
| *Juncus alpinoarticulatus* Chaix | northern jointed rush |
| *Juncus balticus* Willd. | wire rush |
| *Juncus torreyi* Coville | Torry's rush |
| | |
| **Liliaceae** | **Lily Family** |
| *Allium cernuum* Roth | nodding onion |
| *Allium textile* Nels. & Macbr. | prairie onion |
| *Disporum trachycarpum* (S. Wats.) B. & H. | fairy-bells |
| *Fritillaria pudica* (Pursh) Spreng. | yellow-bell |
| *Smilacina racemosa* (L.) Desf. var. *amplexicaulis* (Nutt.) S. Wats. | false Solomon's-seal |
| *Smilacina stellata* (L.) Desf. | star-flowered Solomon's-seal |
| *Zigadenus elegans* Pursh | white camas |
| *Zigadenus venenosus* S. Wats. var. *gramineus* (Rydb.) Walsh | death camas |
| | |
| **Iridaceae** | **Iris Family** |
| *Sisyrinchium montanum* Greene | blue-eyed grass |
| | |
| **Orchidaceae** | **Orchid Family** |
| *Corallorhiza striata* Lindl. | striped coral-root |
| *Corallorhiza trifida* Châtelain | pale coral-root |
| *Coeloglossum viride* (L.) Hartm. | bracted orchid |
| | |
| **Salicaceae** | **Willow Family** |
| *Populus angustifolia* James | narrow-leaf cottonwood |
| *Populus balsamifera* L. | balsam poplar |
| *Populus deltoides* Marsh. var. *occidentalis* Rydb. | western cottonwood |

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|---|---|
| **Salicaceae (continued)** | |
| *Populus tremuloides* Michx. | aspen |
| *Salix bebbiana* Sarg. | beaked willow |
| *Salix exigua* Nutt. | sandbar willow |
| **Betulaceae** | **Birch Family** |
| *Alnus tenuifolia* Nutt. | river alder |
| *Betula occidentalis* Hook. | water birch; black birch |
| **Urticaceae** | |
| *Urtica dioica* L. ssp. *gracilis* (Ait.) Selander[I] | common nettle |
| **Santalaceae** | **Sandalwood Family** |
| *Comandra umbellata* (L.) Nutt. | bastard toadflax |
| **Polygonaceae** | **Buckwheat Family** |
| *Eriogonum flavum* Nutt. | yellow umbrella plant |
| *Polygonum amphibium* L. | water smartweed |
| *Rumex triangulivalis* (Dans.) Rech. f. | narrow-leaved dock |
| **Chenopodiaceae** | **Goosefoot Family** |
| *Chenopodium capitatum* (L.) Aschers. | strawberry blite |
| *Eurotia lanata* (Pursh) Moq. | winter fat |
| **Nyctaginaceae** | |
| *Mirabilis hirsuta* (Pursh) MacM. | umbrellawort |
| **Caryophyllaceae** | **Pink Family** |
| *Cerastium arvense* L. | mouse-ear chickweed |
| *Moehringia lateriflora* (L.) Fenzl. | |
| *Paronychia sessiliflora* Nutt. | low whitlow-wort |
| *Silene drummondii* Hook.[I] | Drummond's campion |

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|---|---|
| **Ranunculaceae** | **Crowfoot Family** |
| *Actaea rubra* (Ait.) Willd. | red (and white) baneberry |
| *Anemone cylindrica* A. Gray | long-fruited anemone |
| *Anemone multifida* Poir. | cut-leaved anemone |
| *Anemone patens* L. | prairie crocus |
| *Clematis ligusticifolia* Nutt. | western clematis |
| *Clematis occidentalis* (Hornem.) DC. var. *grosserrata* (Rydb.) Pringle | purple clematis |
| *Delphinium bicolor* Nutt. | low larkspur |
| *Ranunculus abortivus* L. | small-flowered crowfoot |
| *Ranunculus acris* L.* | tall buttercup |
| *Ranunculus circinatus* Sibth. var. *subrigidus* (Drew) L. Benson | white water crowfoot |
| *Ranunculus cymbalaria* Pursh | creeping buttercup |
| *Ranunculus macounii* Britt. | Macoun's buttercup |
| *Thalictrum venulosum* Trel. | veiny meadow rue |
| **Fumariaceae** | **Fumitory Family** |
| *Corydalis aurea* Willd. | golden corydalis |
| **Cruciferae** | **Mustard Family** |
| *Arabis divaricarpa* A. Nels. | purple rock cress |
| *Arabis drummondii* A. Gray‡ | Drummond's rock cress |
| *Arabis nuttallii* Robinson | rock cress |
| *Cardaria pubescens* (C.A. Mey.) Rollins* | globe-podded hoary cress |
| *Draba aurea* Vahl | golden draba |
| *Erysimum cheiranthoides* L.* | wormseed mustard |
| *Erysimum inconspicuum* (S. Wats.) Macm. | small-flowered rocket |
| *Lesquerella arenosa* (Richards.) Rydb. var. *arenosa* | bladder-pod |
| *Physaria didymocarpa* (Hook.) A. Gray | double bladder-pod |
| *Rorippa palustris* (L.) Besser‡ | yellow cress |
| **Saxifragaceae** | **Saxifrage Family** |
| *Heuchera parvifolia* Nutt. *ex* T. & G. | alum-root |

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|---|---|
| **Grossulariaceae** | **Gooseberry Family** |
| *Ribes hirtellum* Michx.** | wild gooseberry |
| *Ribes oxyacanthoides* L. | wild gooseberry |
| | |
| **Rosaceae** | **Rose Family** |
| *Amelanchier alnifolia* Nutt. | Saskatoon |
| *Chamaerhodos erecta* (L.) Bunge ssp. *nuttallii* (Pickering) Hult. | chamaerodos |
| *Crataegus douglasii* Lindl.** ‡ | Douglas hawthorn |
| *Crataegus rotundifolia* Moench | round-leaf hawthorn |
| *Fragaria virginiana* Duchesne ssp. *glauca* (S. Wats.) Staudt. | wild strawberry |
| *Geum aleppicum* Jacq. | yellow avens |
| *Geum triflorum* Pursh | three-flowered avens |
| *Potentilla anserina* L. | silverweed |
| *Potentilla arguta* Pursh | white cinquefoil |
| *Potentilla concinna* Richards | early cinquefoil |
| *Potentilla fruticosa* L. | shrubby cinquefoil |
| *Potentilla gracilis* Dougl. *ex* Hook. | graceful cinquefoil |
| *Potentilla hippiana* Lehm. | woolly cinquefoil |
| *Potentilla norvegica* L. | rough cinquefoil |
| *Potentilla pensylvanica* L. (includes *P. bipinnatifida* Dougl. *ex* Hook.) | prairie cinquefoil |
| *Potentilla rivalis* Nutt.¤ | river cinquefoil |
| *Prunus virginiana* L. | choke cherry |
| *Rosa acicularis* Lindl.** | prickly rose |
| *Rosa arkansana* Porter | prairie rose |
| *Rosa woodsii* Lindl. | common wild rose |
| *Rubus idaeus* L. ssp. *melanolasius* Focke | wild red raspberry |
| *Spiraea betulifolia* Pallas | white meadowsweet |
| | |
| **Leguminosae** | **Pea Family** |
| *Astragalus aboriginum* Richards. | Indian milk vetch |
| *Astragalus bisulcatus* (Hook.) A. Gray | two-grooved milk vetch |

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|---|---|
| **Leguminosae (continued)** | |
| *Astragalus canadensis* L. | Canada milk vetch |
| *Astragalus crassicarpus* Nutt. | ground plum |
| *Astragalus dasyglottis* Fisch. *ex* DC. | |
| *Astragalus drummondii* Dougl. *ex* Hook. | Drummond's milk vetch |
| *Astragalus flexuosus* Dougl. *ex* G. Don | slender milk vetch |
| *Astragalus gilviflorus* Sheldon | cushion milk vetch |
| *Astragalus missouriensis* Nutt. | Missouri milk vetch |
| *Astragalus pectinatus* Dougl. *ex* Hook. | narrow-leaved milk vetch |
| *Astragalus robbinsii* (Oakes) A. Gray var. *occidentalis* S. Wats. | Robbin's milk vetch |
| *Astragalus striatus* Nutt. | ascending purple milk vetch |
| *Astragalus tenellus* Pursh | loose-flowered milk vetch |
| *Astragalus vexilliflexus* Sheldon | bent-flowered milk vetch |
| *Glycyrrhiza lepidota* Pursh | wild licorice |
| *Hedysarum alpinum* L. ssp. *americanum* (Michx.) Fedtsch. | American sweetbroom |
| *Hedysarum boreale* Nutt. var. *boreale* | northern hedysarum |
| *Hedysarum sulphurescens* Rydb. | yellow hedysarum |
| *Lathyrus ochroleucus* Hook. | cream-flowered peavine |
| *Lupinus argenteus* Pursh | perennial lupine |
| *Lupinus sericeus* Pursh | perennial lupine |
| *Oxytropis monticola* A. Gray ssp. *monticola* | late yellow loco-weed |
| *Oxytropis sericea* Nutt. var. *spicata* (Hook.) Barneby | early yellow loco-weed |
| *Oxytropis splendens* Dougl. *ex* Hook. | showy loco-weed |
| *Petalostemon candidum* (Willd) Michx. | white prairie clover |
| *Petalostemon purpureum* (Vent.) Rydb. | purple prairie clover |
| *Psoralea esculenta* Pursh | Indian bread-root |
| *Thermopsis rhombifolia* (Nutt.) Richards. | buffalo bean |
| *Vicia americana* Muhl. | wild vetch |
| **Geraniaceae** | **Geranium Family** |
| *Geranium viscosissimum* Fisch. & Mey. | sticky purple geranium |

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|---|---|
| **Linaceae** | **Flax Family** |
| *Linum lewisii* Pursh | wild blue flax |
| *Linum rigidum* Pursh | yellow flax |
| **Anacardiaceae** | **Sumach Family** |
| *Rhus trilobata* Nutt. | skunk bush |
| **Malvaceae** | **Mallow Family** |
| *Sphaeralcea coccinea* (Pursh) Rydb. | scarlet mallow |
| *Sphaeralcea munroana* (Dougl.) Spach *ex* Gray* | |
| **Violaceae** | **Violet Family** |
| *Viola adunca* J.E. Smith | early blue violet |
| *Viola canadensis* L. var. *rugulosa* (Greene) C.L. Hitchc. | western Canada violet |
| *Viola nephrophylla* Greene | bog violet |
| *Viola nuttallii* Pursh | yellow prairie violet |
| *Viola renifolia* A. Gray** | kidney-leaved violet |
| **Loasaceae** | **Loasa Family** |
| *Mentzelia decapetala* (Sims) Urban & Gilg | sand lily; evening star |
| **Cactaceae** | **Cactus Family** |
| *Coryphantha vivipara* (Nutt.) Britt. & Rose | cushion or ball cactus |
| *Opuntia polyacantha* Haw. | prickly pear |
| **Elaeagnaceae** | **Oleaster Family** |
| *Elaeagnus commutata* Bernh. *ex* Rydb. | wolf willow; silver-berry |
| *Shepherdia argentea* Nutt. | thorny buffalo-berry |
| *Shepherdia canadensis* (L.) Nutt. | Canadian buffalo-berry |
| **Onagraceae** | **Evening Primrose Family** |
| *Epilobium angustifolium* L. | fireweed; great willow-herb |
| *Epilobium ciliatum* Raf. ssp. *glandulosum* (Lehm.) Hoch & Raven | northern willow-herb |

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|---|---|
| **Onagraceae (continued)** | |
| *Epilobium latifolium* L. ssp. *latifolium* | red willow-herb |
| *Gaura coccinea* Pursh | scarlet butterfly-weed |
| *Oenothera biennis* L. | yellow evening primrose |
| *Oenothera flava* (A. Nels.) Garrett‡ | low yellow evening primrose; yellow lavauxia |
| *Oenothera nuttallii* Sweet** | white evening primrose |
| **Umbelliferae** | **Carrot Family** |
| *Angelica arguta* Nutt. | white angelica |
| *Carum carvi* L.* | caraway |
| *Heracleum lanatum* Michx. | cow parsnip |
| *Lomatium dissectum* (Nutt.) Mathias & Constance var. *multifidum* | fern-leaved lomatium |
| *Lomatium macrocarpum* (Hook. & Arn.) Coult. & Rose‡ | large-fruit lomatium |
| *Lomatium triternatum* (Pursh) Coult. & Rose | prairie parsley |
| *Musineon divaricatum* (Pursh) Nutt. | leafy musineon |
| *Osmorhiza chilensis* Hook. & Arn.‡ | sweet cicely |
| *Perideridia gairdneri* (Hook. & Arn.) Mathius | squaw-root; yampa |
| *Sium sauve* Walt. | water parsnip |
| *Zizia aptera* (A. Gray) Fern. | meadow parsnip; heart-leaved alexanders |
| **Cornaceae** | **Dogwood Family** |
| *Cornus stolonifera* Michx. | red osier; dogwood; kinnikinnick |
| **Ericaceae** | **Heath Family** |
| *Arctostaphylos uva-ursi* (L.) Spreng. | common bearberry; kinnikinnick |
| **Primulaceae** | **Primrose Family** |
| *Androsace chamaejasme* Host** | sweet-flowered androsace |
| *Androsace occidentalis* Pursh‡ | fairy candelabra; western pygmy-flower |
| *Androsace septentrionalis* L. | fairy candelabra |
| *Dodecatheon conjugens* Greene | shooting star |

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‡ Reported by Eastern Slopes Rangeland Consultants (1992)

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| **Gentianaceae** | **Gentian Family** |
| *Gentianella amarella* (L.) Börner ssp. *acuta* (Michx.) Gillett. | felwort |
| **Apocynaceae** | **Dogbane Family** |
| *Apocynum androsaemifolium* L. | spreading dogbane |
| *Apocynum cannabinum* L. | Indian hemp |
| *Apocynum* × *medium* Greene[I] | dogbane |
| **Convolvulaceae** | **Morning-glory Family** |
| *Convolvulus sepium* L. | wild morning-glory |
| **Polemoniaceae** | **Phlox family** |
| *Collomia linearis* Nutt. | collomia |
| *Phlox hoodii* Richards. | moss phlox |
| *Polemonium pulcherrimum* Hook. | Jacob's-ladder |
| **Hydrophyllaceae** | **Waterleaf Family** |
| *Hydrophyllum capitatum* Dougl. *ex* Hook.[‡] | woollen-breeches |
| *Phacelia franklinii* (R.Br.) A. Gray[I] | scorpion weed |
| **Boraginaceae** | **Borage Family** |
| *Cryptantha nubigena* (Greene) Payson var. *celosioides* (Eastw.) Boivin | sierra cryptantha |
| *Hackelia floribunda* (Lehm.) I.M. Johnston | many-flowered stick-seed |
| *Lithospermum incisum* Lehm. | narrow-leaved puccoon |
| *Lithospermum ruderale* Lehm. | yellow puccoon |
| **Labiatae** | **Mint Family** |
| *Mentha arvensis* L. | wild mint |
| *Monarda fistulosa* L. var. *menthifolia* (Grah.) Fern. | wild bergamot |
| *Prunella vulgaris* L. ssp. *lanceolata* (Bart.) Hult. | heal-all |
| *Stachys palustris* L. ssp. *pilosa* (Nutt.) Epling | hedge nettle |

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|---|---|
| **Scrophulariaceae** | **Figwort Family** |
| *Besseya wyomingensis* (A. Nels.) Rydb. | kitten-tails |
| *Castilleja lutescens* (Greenm.) Rydb. | yellow paint-brush |
| *Castilleja miniata* Dougl. *ex* Hook. | common red paint-brush |
| *Gratiola neglecta* Torr. | common American hedge-hyssop |
| *Limosella aquatica* L. | mudwort |
| *Orthocarpus luteus* Nutt. | owl-clover |
| *Penstemon confertus* Dougl. | yellow beard-tongue |
| *Penstemon eriantherus* Pursh‡ | crested beard-tongue |
| *Penstemon nitidus* Dougl. *ex* Benth. | smooth blue beard-tongue |
| *Penstemon procerus* Dougl. *ex* Grah. | slender blue beard-tongue |
| *Veronica americana* (Raf.) Schw. | American brooklime |
| **Orobanchaceae** | **Broom-rape Family** |
| *Orobanche fasciculata* Nutt. | clustered broom-rape |
| **Plantaginaceae** | **Plantain Family** |
| *Plantago canescens* Adams | plantain |
| **Rubiaceae** | **Madder Family** |
| *Galium boreale* L. | northern bedstraw |
| **Caprifoliaceae** | **Honeysuckle Family** |
| *Symphoricarpos albus* (L.) Blake** | snowberry |
| *Symphoricarpos occidentalis* Hook. | buckbrush; wolfberry |
| **Campanulaceae** | **Bluebell Family** |
| *Campanula rotundifolia* L. | bluebell; harebell |
| **Compositae** | **Composite Family** |
| *Achillea millefolium* L. | common yarrow |
| *Agoseris glauca* (Pursh) Raf. var. *glauca* | false dandelion |
| *Antennaria anaphaloides* Rydb. | pussy toes; tall everlasting |

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| Compositae (continued) | |
|---|---|
| *Antennaria aprica* Greene | pussy toes; everlasting |
| *Antennaria parvifolia* Nutt. | pussy toes; small-leaved everlasting |
| *Antennaria rosea* Greene | pink pussy toes |
| *Arnica cordifolia* Hook.[Ɪ] | heart-leaf arnica |
| *Arnica fulgens* Pursh | shining arnica |
| *Arnica sororia* Greene | twin arnica |
| *Artemisia biennis* Willd. | biennial sagewort |
| *Artemisia campestris* L. | field sage |
| *Artemisia campestris* L. ssp. *caudata* (Michx.) H. & C. | field sage |
| *Artemisia dracunculus* L. | dragonwort |
| *Artemisia frigida* Willd. | pasture sagewort |
| *Artemisia ludoviciana* Nutt. | prairie sagewort |
| *Aster campestris* Nutt.[‡] | meadow aster |
| *Aster ciliolatus* Lindl. | Lindley's aster |
| *Aster conspicuus* Lindl. | showy aster |
| *Aster ericoides* L. ssp. *pansus* (Blake) Cronq. | tufted white prairie aster |
| *Aster hesperius* A. Gray | western willow aster |
| *Aster laevis* L. | smooth aster |
| *Aster subspicatus* Nees | |
| *Balsamorhiza sagittata* (Pursh) Nutt. | balsam-root |
| *Cirsium undulatum* (Nutt.) Spreng. | wavy-leaved thistle |
| *Crepis atrabarba* Heller[‡] | slender hawksbeard |
| *Crepis occidentalis* Nutt.[‡] | western hawksbeard |
| *Erigeron annuus* (L.) Pers. var. *septentrionalis* (Fern. & Wieg.) Wagenitz. | annual fleabane |
| *Erigeron caespitosus* Nutt. | tufted fleabane |
| *Erigeron compositus* Pursh | compound fleabane |
| *Erigeron glabellus* Nutt. var. *pubescens* (Hook.) Cronq. | smooth fleabane |
| *Erigeron speciosus* (Lindl.) DC. | showy fleabane |
| *Gaillardia aristata* Pursh | gaillardia; blanket flower |
| *Grindelia squarrosa* (Pursh) Dunal | gumweed |
| *Gutierrezia sarothrae* (Pursh) Britt. & Rusby | broomweed |

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| **Compositae (continued)** | |
|---|---|
| *Haplopappus lanceolatus* (Hook.) T. & G.** | lance-leaved pyrrocoma |
| *Haplopappus spinulosus* (Pursh) DC. | spiny iron plant |
| *Helianthus annuus* L. ssp. *lenticularis* (Lindl.) Cockerell | common annual sunflower |
| *Helianthus subrhomboideus* Rydb. | rhombic-leaved sunflower |
| *Heterotheca villosa* (Pursh) Shinners | golden aster |
| *Hymenopappus filifolius* Hook.‡ | tufted hymenopappus |
| *Hymenoxys acaulis* (Pursh) Parker | butte marigold |
| *Hymenoxys richardsonii* (Hook.) Cockerell | Colorado rubber-plant |
| *Lactuca pulchella* (Pursh) DC. | common blue lettuce |
| *Liatris punctata* Hook. | dotted blazing star |
| *Lygodesmia juncea* (Pursh) D. Don | skeleton-weed; prairie pink |
| *Madia glomerata* Hook. | tarweed |
| *Ratibida columnifera* (Nutt.) Wooton & Standl. | prairie cone-flower |
| *Senecio canus* Hook. | prairie groundsel |
| *Senecio integerrimus* Nutt. var. *exaltatus* (Nutt..) Cronq. | entire-leaved groundsel |
| *Senecio pauperculus* Michx. | balsam groundsel |
| *Solidago gigantea* Ait. var. *serotina* (Ait.) Cronq. | late goldenrod |
| *Solidago missouriensis* Nutt. | Missouri goldenrod |
| *Stephanomeria runcinata* Nutt.‡ | runcinate-leaved stephanomeria |
| *Townsendia hookeri* Beaman | Hooker's townsendia |
| *Townsendia parryi* D.C. Eat. | Parry's townsendia |
| *Xanthium strumarium* L.ɪ | cocklebur |

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